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PHOTOGRAPHIC INTERPRETATION REPORT

NAVAL MISSILE DEPOTS, USSR

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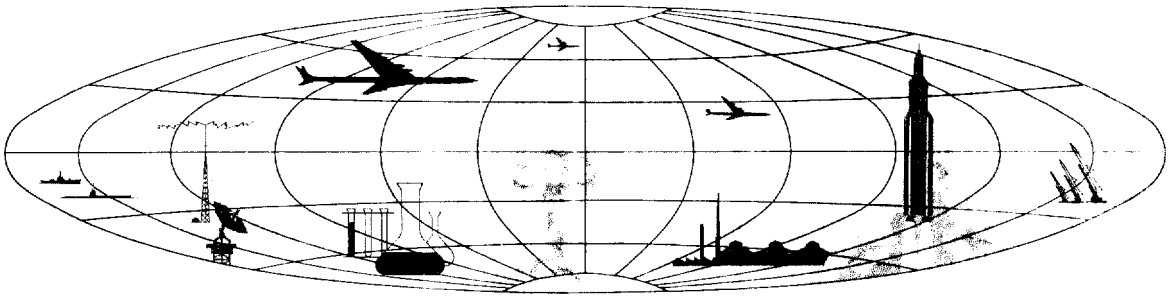

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PHOTOGRAPHIC INTERPRETATION REPORT

NAVAL MISSILE DEPOTS, USSR

March 1965

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

SUMMARY AND CONCLUSIONS

Nine depots for the storage and handling of naval missiles have been identified in the USSR to date. All but 1 of the depots include a specialized facility apparently used for warhead storage (the firmness of warhead identification varies). On the basis of naval association and facilities included, the naval missile depots can be divided into 2 types--regional and forward.

The regional depots are associated with a fleet headquarters or major operating area and include the following 3 components: a missile storage facility subdivided into 2 areas; a missile support facility (missile port); and a warhead storage facility. Four regional depots have been identified, and 2 other depots have been designated as possible regional because they lack 1 or more of the components.

The forward depots are associated with a forward submarine base and include only 2 components--a missile storage facility which is not subdivided and a warhead storage facility; in lieu of a separate missile port, the missiles are apparently loaded at the piers of the associated submarine bases.

The following general conclusions may be drawn from the observations of the 9 Soviet naval missile depots:

1. Soviet naval missile depots are related to fleet headquarters, naval/submarine bases, or special ports used by missile submarines or missile destroyers.

3. The warhead storage facilities at 5 of the depots include at least 2 apparently separate storage structures with discernible differences in configuration/dimensions.

4. Missiles and missile warheads seem to be stored separately.

5. Some components of the missile which are stored separately at the regional depots are stored with the rest of the missile at the forward depots.

INTRODUCTION AND GENERAL DESCRIPTION

The 9 Soviet naval missile depots observed to date are located near either headquarters of the Soviet fleets or bases/ports used by missile ships (Figures 1 and 2). Each of the depots has been the subject of at least 1 detailed photographic interpretation report. 1/ This study compares the depots, describing similarities and variations in the functional areas. An attempt has also been made to differentiate between ballistic and cruise missile storage capabilities.

The depots can be divided by naval association and by layout into 2 distinct categories--regional and forward. The regional depots are each related to a fleet headquarters or a major operating area and have 3 component facilities. The forward depots are directly connected to forward submarine bases used by missile submarines and have 2 component facilities. Schematic drawings illustrate the typical components of both types of depots (Figure 3), and Table 1 presents a summary of the individual components of the 9 depots.

Although a single port facility is a characteristic of the regional depots and each forward depot is typically associated with a specific submarine base, it is possible that 2 of the depots actually support 2 ports. Dunay Regional Depot may also support the port of Bukhta Abrek, 2/ to which it is connected by road, and Sayda-Guba Forward Depot may also supply the port of Guba Olenya,* which is a short distance

*Photographic references cited for Sayda-Guba in NPIC/R-5086/64 1/ also apply to Guba Olenya.

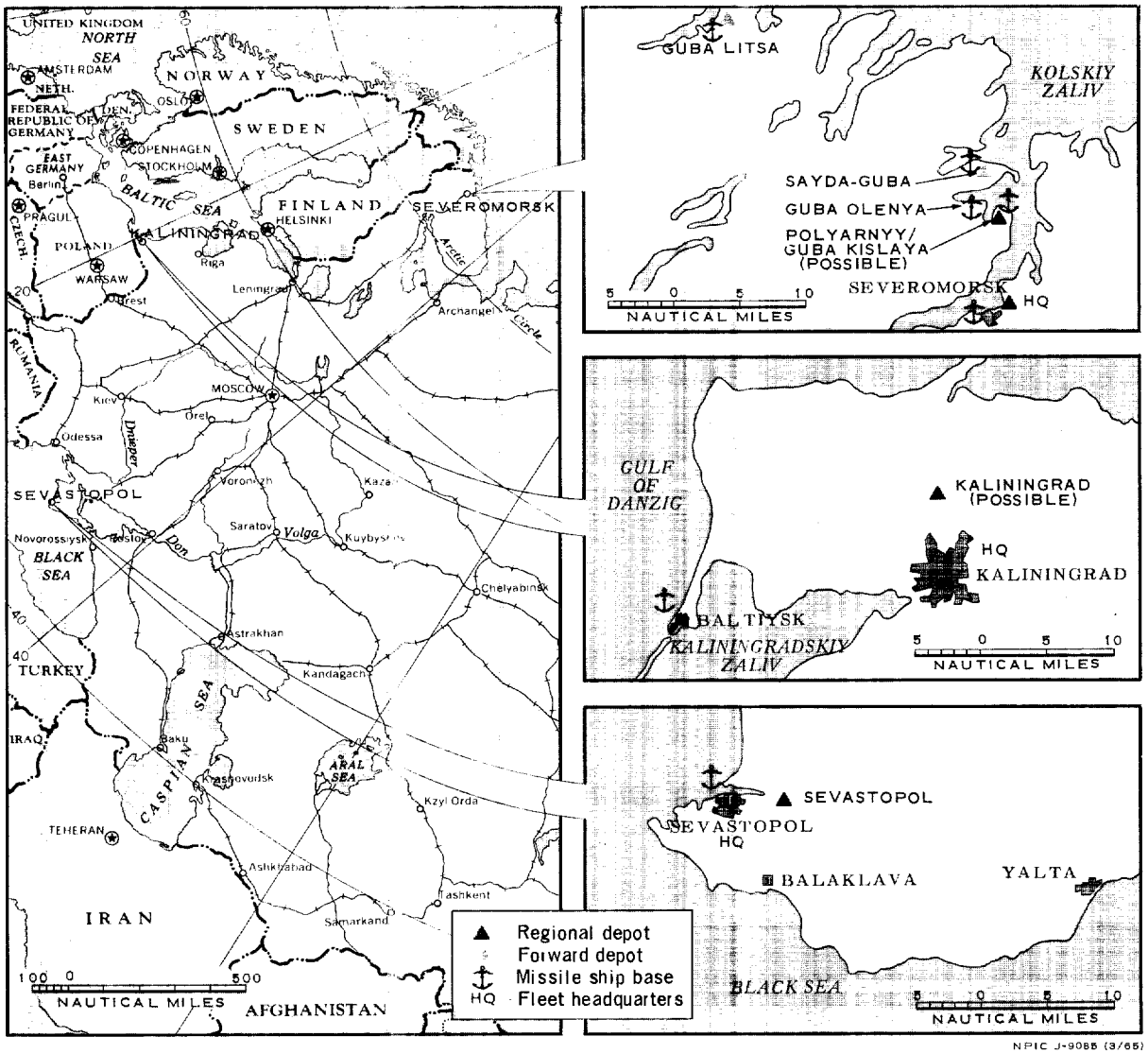

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FIGURE 1. LOCATIONS OF NAVAL MISSILE DEPOTS, MISSILE SHIP BASES, AND FLEET HEADQUARTERS IN THE WESTERN USSR.

from Sayda-Guba by sea. Missile ships have been observed at both of these ports.

REGIONAL DEPOTS

Regional depots include the following components: a naval missile storage facility which is divided into 2 clearly defined areas--a storage and checkout area and an explosives storage area; a naval missile support facility (missile port); and a warhead storage facility. Estimates of the function of the warhead facility range from

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storage. This facility is separately secured and is located either at the missile storage facility or at the missile port. The regional depots at Dunay, Petropavlovsk, Sevastopol, and Severo-

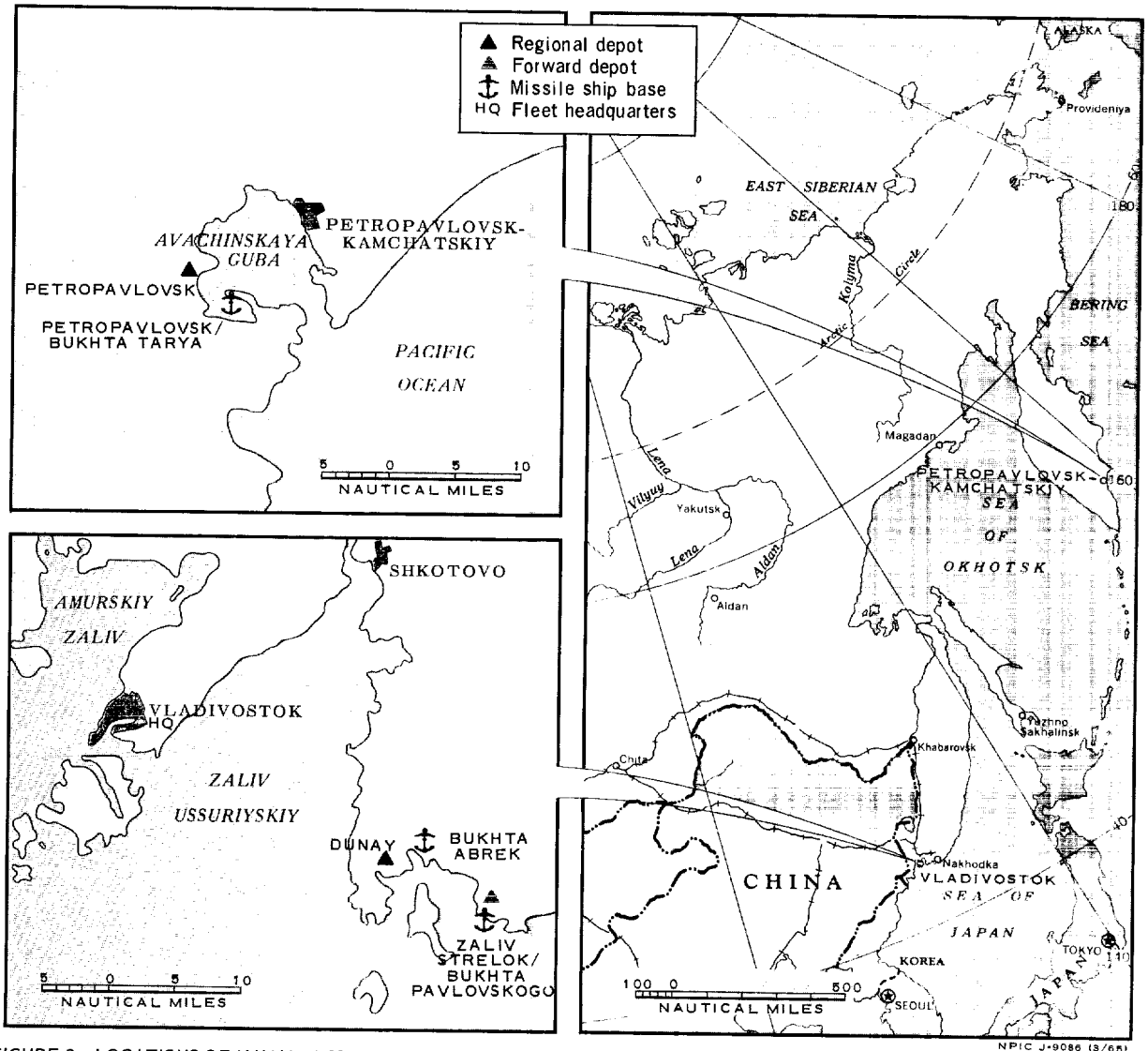

FIGURE 2. LOCATIONS OF NAVAL MISSILE DEPOTS, MISSILE SHIP BASES, AND FLEET HEADQUARTERS IN THE EASTERN USSR.

morsk include all components.

Because 1 or more of the components is not present at 2 sites, they are designated as possible regional depots. At Polyarnyy/Guba Kislaya no naval missile storage facility has been identified as such, and the area for possible warhead storage is still under construction. At Kaliningrad neither a warhead storage facility nor a missile port has been identified, but Kaliningrad is connected by road to the Baltiysk Naval Base and may be associated with that base.

FORWARD DEPOTS

Forward depots are directly connected to naval bases used by missile submarines and do

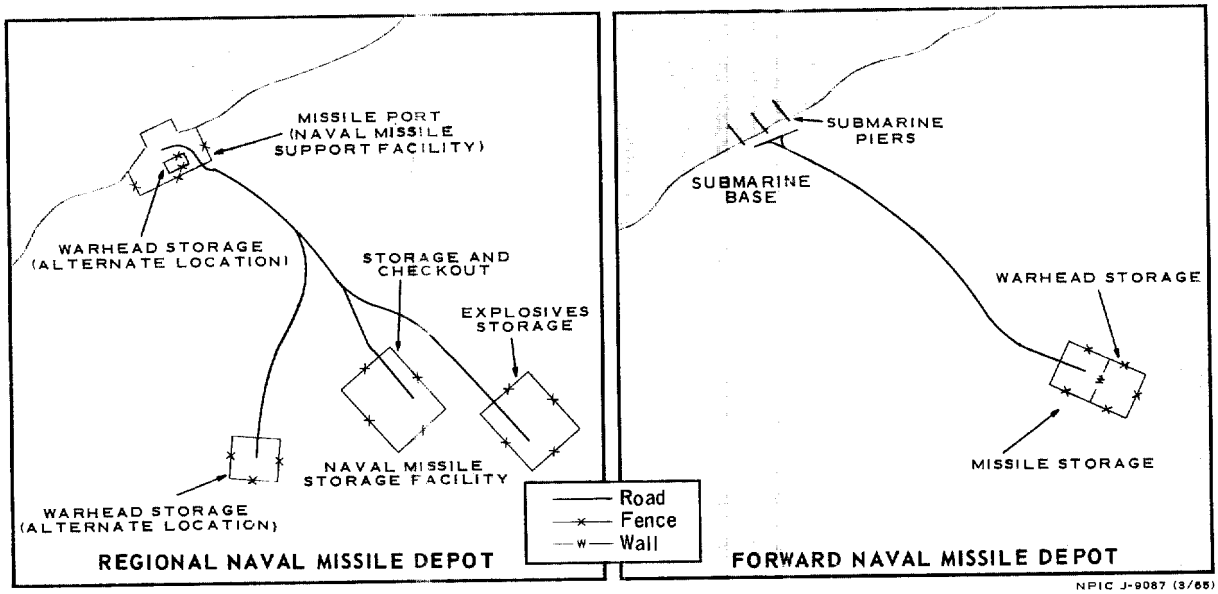

FIGURE 3. SCHEMATIC DRAWINGS OF TYPICAL COMPONENTS OF REGIONAL AND FORWARD NAVAL MISSILE DEPOTS.

not include separate missile ports. The forward depots at Guba Litsa, Sayda-Guba, and Zaliv Strelok/Bukhta Pavlovskogo* consist of a naval missile storage facility which is not subdivided and either a suspect warhead storage facility or a storage facility. The warhead facility is adjacent to the missile storage facility.

ORGANIZATION OF REPORT

This report describes in detail the components of naval missile depots, with comparative line drawings of individual layouts and tables listing the dimensions of significant structures. Descriptions of the 2 areas characteristic of regional missile storage facilities, the Storage and Checkout Area (Figure 4 and Table 2) and the Explosives Storage Area (Figure 5 and Table 3), are followed by a description of the single-area forward missile storage facilities (Figure 6 and Table 4). Warhead storage facilities are analyzed in 1 section including both types of depots (Figure 7 and Table 5). The missile support facilities, components of regional depots only, are described but not illustrated.

The last section of the report presents estimates of the type(s) of missiles stored and brief descriptions of all 9 depots. Photo and map references for specific sites can be found in the detailed reports on these sites. 1/2/

A table of photographic sightings of missile ships (both submarines and destroyers) at Soviet ports is located in Appendix A.

*Zaliv Strelok/Bukhta Pavlovskogo has also been designated as Strelok Strait/Anna.

Table 1. Soviet Naval Missile Depots

Depot Name	Type	Components		
		Missile Storage Facility	Missile Support Facility (missile port)	Warhead Storage Facility
Dunay	Regional	Yes 2 areas separately secured	Yes Possible second port at Bukhta Abrek	
Petropavlovsk	Regional	Yes 2 areas separately secured	Yes--Probable	
Sevastopol	Regional	Yes 2 areas separately secured	Yes	
Severomorsk	Regional	Yes 2 areas not separately secured	Yes	
Kaliningrad	Possible regional	Yes--Possible 2 areas separately secured	None identified Possibly associated with Baltiysk Naval Base	
Polyarnyy/Guba Kislaya	Possible regional	None identified	Yes	
Guba Litsa	Forward	Yes-- Probable 1 area	No Submarine Base 2 nm away by road	
Sayda-Guba	Forward	Yes 1 area	No Submarine Base adjacent; May also supply Guba Olenya	
Zaliv Strelok/ Bukhta Pavlovskogo	Forward	Yes 1 area	No Submarine Base 3 nm away by road	

NAVAL MISSILE STORAGE FACILITIES

REGIONAL DEPOTS

The naval missile storage facilities at the 4 regional depots and Kaliningrad Possible Regional Depot consist of a storage and checkout area and an explosives storage area; no missile storage facility as such has been identified at Polyarnyy/Guba Kislaya Possible Regional Depot. With the exception of Severomorsk, the 2 areas are individually secured and physically separated; at Severomorsk the areas are on opposite sides of a small lake, but within the same security fence.

The warhead facilities at the Dunay and Petropavlovsk depots are located in the vicinity of the missile storage facilities; at other regional depots these warhead facilities are adjacent to the missile ports.

Support areas, generally not secured, are located at or near the missile storage facilities. The depots at Dunay and Kaliningrad include on-site rail-to-road transfer points, and similar points are nearby at Severomorsk and Sevastopol.

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Storage and Checkout Areas

The Storage and Checkout Areas are roughly similar in layout and structures (Figure 4 and Table 2). They are separately secured (except at Severomorsk) and may also include internal walls or fences. Major buildings generally identified in these areas include the following: a group of structures which can be divided into primary storage and secondary storage buildings; a drive-through probable assembly/checkout building; 1 or more smaller drive-through buildings; and other buildings which may include a possible receiving building.

The principal structures in these areas are the primary storage buildings. These large buildings are typically parallel to each other and located for easy access from the service road. There are variations in dimensions at each site, but these are minor except at Sevastopol, where there appear to be 2 general sizes. The buildings at Dunay and Kaliningrad have drive-through capabilities, and those at the other 3 sites have drive-in entrances. All the primary storage buildings except those at Severomorsk are earth covered. However, the buildings are only about 50 feet apart, which would suggest temperature control, hardening, or concealment rather than blast protection.

The secondary storage buildings are distinguished from the primary ones mainly by their relative positions in the areas. The secondary buildings are smaller than the primary ones at Dunay and Sevastopol, but the sizes are comparable at the other sites. Those at Dunay and Kaliningrad have drive-through capabilities and

Table 2. Major Buildings in Storage and Checkout Areas at Regional Naval Missile Depots
(All dimensions are in feet)

Depot	Primary Storage Bldgs*	Secondary Storage Bldgs*	Probable Assembly/ Checkout Bldg	Other Drive-through Bldgs	Possible Receiving Bldg	Other Bldgs*
Dunay	(5) 235 x 30e	(1) 165 x 30 (1) 160 x 30	135 x 70	(1) 60 x 25	200 x 40	(1) 350 x 65 (1) 75 x 25 (isolated bldg) (1) 70 x 35
Kaliningrad (Possible)	(5) 210 x 40e	(2) 210 x 40e	145 x 60	(1) 100 x 55 (1) 50 x 30 (1) 50 x 20	145 x 40	(1) 110 x 60
Petropavlovsk	(1) 240 x 30e (8) 230 x 35e	(1) 235 x 35e (1) 235 x 30e	160 x 110	(1) 70 x 30	---	(1) 100 x 40 (1) 100 x 35 (1) 85 x 30 (1) 50 x 35e
Sevastopol	(2) 300 x 45e (1) 250 x 50e (1) 250 x 45e (1) 240 x 45e	(1) 170 x 45e (1) 130 x 50e	135 x 50	(2) 65 x 30	---	(1) 50 x 45 (1) 40 x 35
Severomorsk	(4) 220 x 60	(2) 220 x 50	120 x 70	(1) 70 x 30	---	(1) 100 x 40 (2) 70 x 30 (1) 60 x 20 (1) 50 x 20 (1) 40 x 20

*The symbol "e" indicates earth-covered structure; dimensions given are the estimated size of the structure within the earth cover. The edge-to-edge distance between the earth-covered structures is approximately 50 feet at the 4 depots with this type of structure; the comparable buildings at Severomorsk are about the same distance apart.

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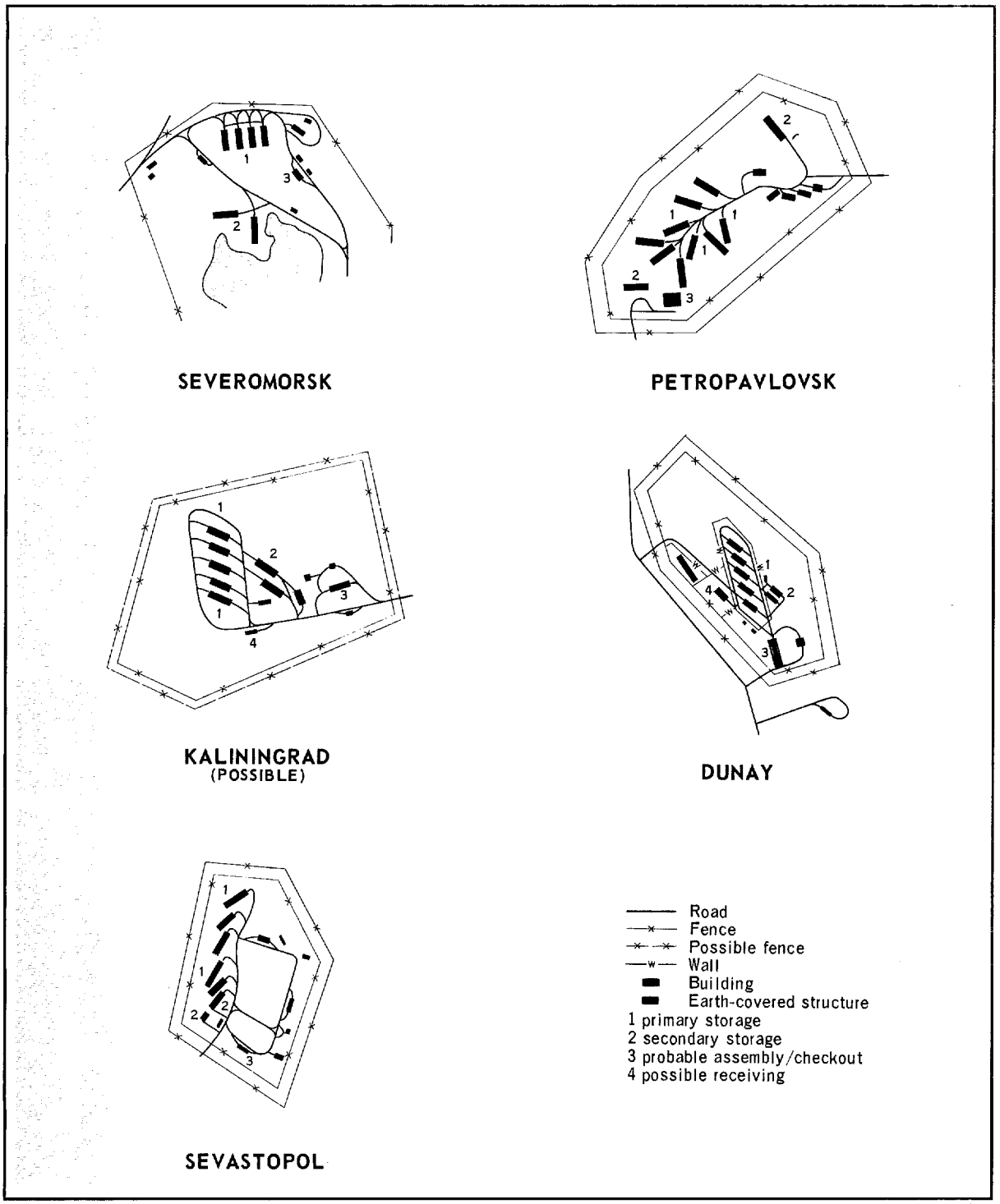

FIGURE 4. STORAGE AND CHECKOUT AREAS AT MISSILE STORAGE FACILITIES, REGIONAL NAVAL MISSILE DEPOTS.

the others have drive-in entrances. All the secondary storage buildings, except those at Dunay and Severomorsk, are earth covered.

Each Storage and Checkout Area includes a drive-through probable assembly/checkout building on an apron. At sites covered by good-quality photography this building could be seen to have a high center bay with a lower bay at each side; the drive-through center bay would be high enough to contain an overhead hoist. All the sites include 1 or more smaller drive-through buildings, and at Dunay and Kaliningrad a drive-through building is built on a loop road which bypasses the probable assembly/checkout building. Dunay and Kaliningrad also contain a possible receiving building. At Dunay an isolated building which may be used for recycling is located at the end of a service road outside the entrance to the area.

Numerous vehicles and van trailers or shipping crates have been observed at Dunay and Sevastopol, and a few were seen at Petropavlovsk. The vans or crates measure

Naval missile airframes/assemblies are probably kept in the Storage and Checkout Areas. The structures in these areas would be used for uncrating and other receiving procedures, missile storage, and assembly/checkout activities.

Explosives Storage Areas

The Explosives Storage Areas, except the one at Severomorsk, are separately secured and are served by access roads which bypass the Storage and Checkout Areas (Figure 5 and Table 3). The major structures within the areas are large explosives storage buildings.

Table 3. Major Buildings in Explosives Storage Areas at Regional Naval Missile Depots
(All dimensions and distances are in feet)

Depot	Storage Bldgs*	Av Edge-to-Edge Dist Between Bldgs Marked e*	Drive-through Bldgs*
Dunay	(2) 200 x 25e (2) 150 x 25e (3) 145 x 25e (2) 35 x 25e	50-400	---
Kaliningrad (Possible)	(1) 270 x 95e (1) 225 x 80e (2) 125 x 60e (1) 120 x 45e	200-350	(1) 75 x 50 (1) 50 x 40
Petropavlovsk	(1) 225 x 30e (1) 215 x 35e (1) 180 x 30e (1) 170 x 30e (1) 160 x 40e (1) 120 x 50e (1) 75 x 30e (2) 65 x 25e	100-150	(1) 210 x 30e
Sevastopol	(1) 270 x 45e (1) 250 x 50e (1) 190 x 50e (1) 140 x 35e	300-500	(1) 80 x 40
Severomorsk	(5) 140 x 50	**	---

*The symbol "e" indicates earth-covered or earth-banked structure; dimensions given are estimated size of structure within earth cover or bank.
**The comparable structures at Severomorsk are 100-150 feet apart.

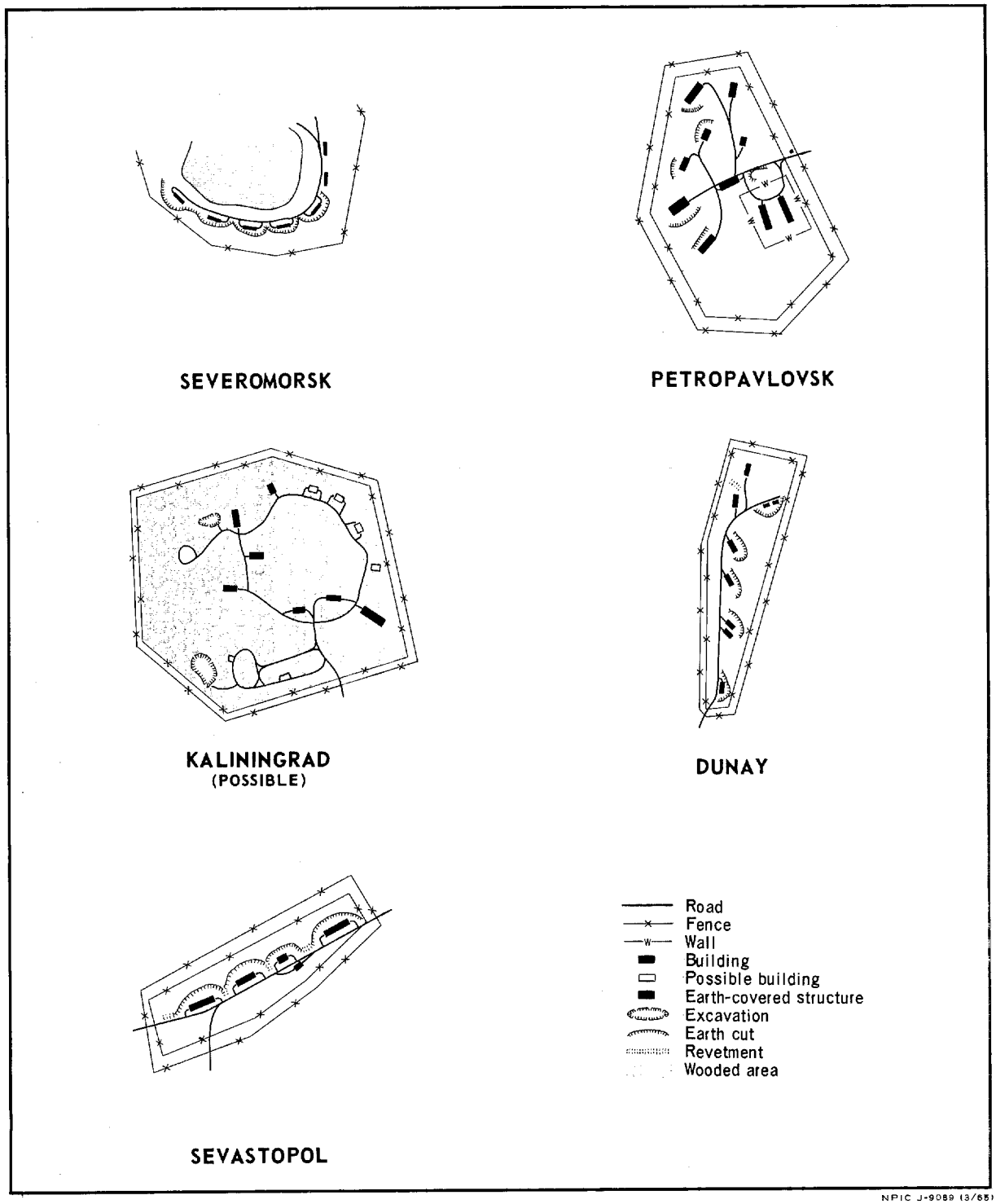

FIGURE 5. EXPLOSIVES STORAGE AREAS AT MISSILE STORAGE FACILITIES, REGIONAL NAVAL MISSILE DEPOTS.

The area at Severomorsk is atypical in that the storage buildings are all the same size and have no form of earthen protection other than their location in hillside cuts. At the other 4 Explosives Storage Areas there are variations in size and degree of protection. Some of the structures have arched roofs and some have gable roofs with wider concrete ends. All the buildings have either drive-in entrances or a drive-through capability; usually they are dispersed, but occasionally they are side-by-side. All the storage buildings, except those at Severomorsk, are either earth covered or earth banked. Other means of protection are revetments, earth ridges, woods, and construction in hillside cuts (the equivalent of revetting).

The variety of building sizes and differing degrees of protection at the individual sites suggest that several items are stored at each site. The layouts of the sites and the earth covering of the buildings indicate that 1 or more of the following is characteristic of the stored items: explosive, flammable, toxic, and/or temperature-sensitive. The missile storage facilities at the forward depots do not include an identifiable Explosives Storage Area as such. This would indicate that whatever components are stored separately at the regional depots are stored with the rest of the missile at the forward depots.

FORWARD DEPOTS

The naval missile storage facilities at the forward depots are adjacent to a [redacted] or a suspect warhead storage area (Figure 6 and Table 4). The missile storage areas consist of earth-covered or earth-mounded storage buildings, possible assembly/checkout buildings, an isolated building, and minor structures. The storage buildings probably serve the same purpose as the primary and secondary storage buildings in the Storage and Checkout Areas at the regional depots.

The storage facility at Guba Litsa is larger and more elaborate than those at the other 2 forward sites. It contains 4 primary storage buildings of 2 types which are separately walled; 2 are earth-covered drive-in buildings and the other 2 are earth-covered drive-through buildings. Other components include 2 earth-covered and 1 partially earth-mounded possible secondary storage buildings, a walled possible assembly/checkout building, and an isolated building.

Table 4. Major Buildings in Missile Storage Areas at Forward Naval Missile Depots
(All dimensions and distances are in feet)

Depot		Storage Bldgs*	Av Edge-to-Edge Dist Between Bldgs Marked e*	Possible Assembly/ Checkout Bldg*	Isolated Bldg
Guba Litsa	Primary	(2) 230 x 30e	50-300	180 x 30e	55 x 45
		(2) 220 x 40e			
	Secondary	(1) 290 x 35e			
		(2) 220 x 30e			
Sayda-Guba		(1) 255 x 50e	150-200	175 x 40	115 x 35
		(1) 235 x 30e			
		(1) 225 x 25e			
		(1) 175 x 25			
Zaliv Strelok/ Bukhta Pavlovskogo		(1) 190 x 30e	50	115 x 40	---
		(1) 130 x 60			
		(1) 75 x 25e			

*The symbol "e" indicates earth-covered structure; dimensions given are estimated size of structure within the earth cover.

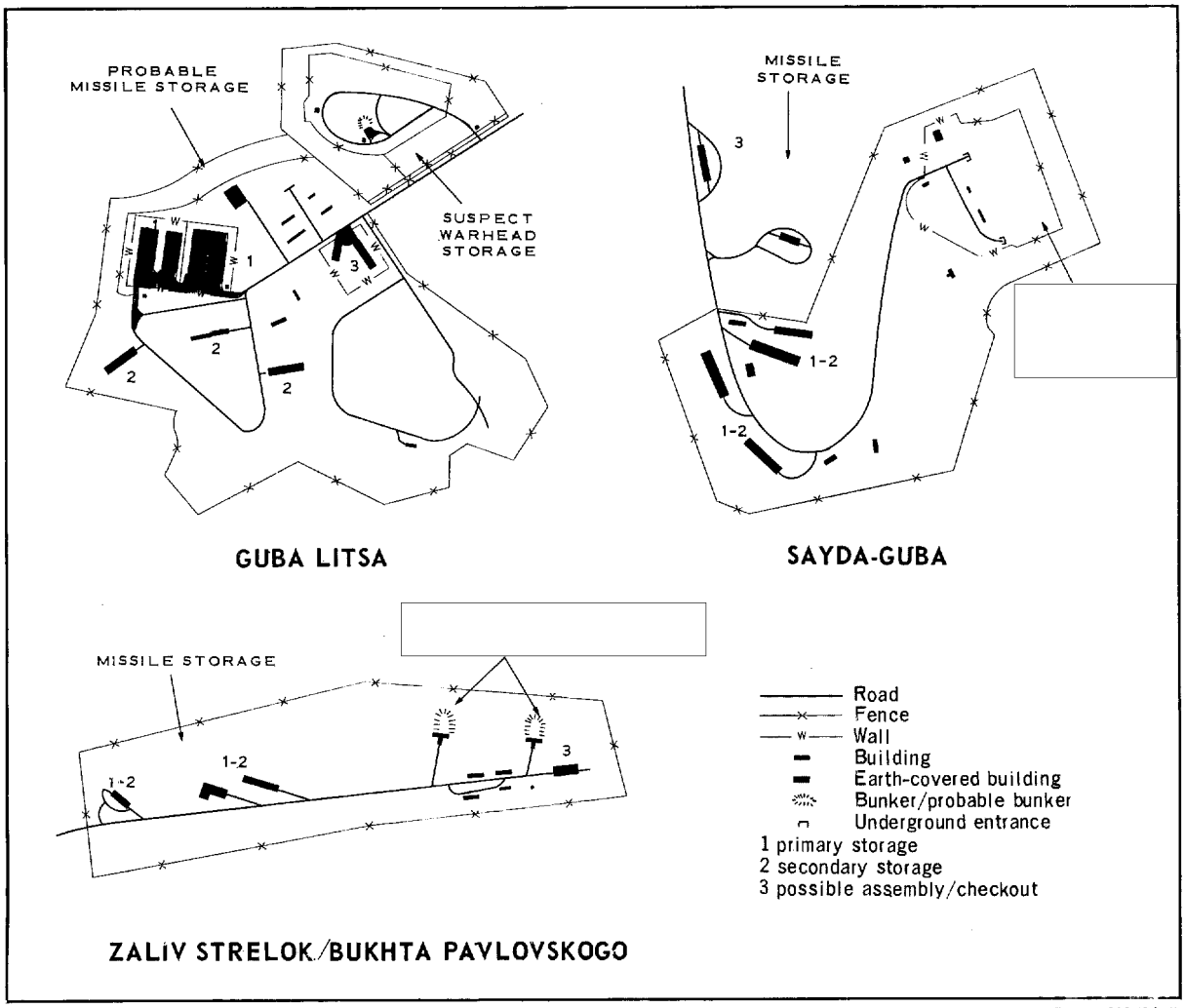

FIGURE 6. MISSILE STORAGE FACILITIES AT FORWARD NAVAL MISSILE DEPOTS.

The area at Sayda-Guba contains 4 drive-in storage buildings, 2 of them added since 1962; 3 of these are earth-covered. Outside the fence are a probable drive-through shop building and a drive-through building on a loop road; these may correspond to the possible assembly/checkout building and the isolated building at Guba Litsa.

The storage facility at Zaliv Strelok/Bukhta Pavlovskogo contains 3 drive-in storage buildings (2 large and 1 small) canted to the access road and a drive-through probable assembly/checkout building at the end of the road. The smaller and 1 of the larger storage buildings are earth covered.

WARHEAD STORAGE FACILITIES

The warhead storage facilities associated with naval missile depots range in designation from facility to suspect warhead storage facility. No warhead storage facility has been identified at Kaliningrad,

and the areas at Dunay and Polyarnyy/Guba Kislaya are still under construction. Warhead areas at regional depots can be located either at the missile storage facility or at the missile port; at the forward depots the warhead storage area is adjacent to the missile storage facility. Table 5 presents a list of the warhead storage facilities, their designations and locations at the various depots, and the structures present.

The type of storage structure utilized varies, and this variation appears to be related to the surrounding terrain. Perspective views of 3 representative types of structures can be found on Figure 7. The facilities associated with Sayda-Guba, Sevastopol, and Severomorsk include 1 or more underground entrances. Storage bunkers were built in hillside excavations and then earth mounded at Zaliv Strelok/Bukhta Pavlovskogo, and possibly the same construction technique was used at Guba Litsa. Only the

Table 5. Warhead Storage Facilities at Soviet Naval Missile Depots

Depot	Designation of Facility/Area	Location At Depot	Type and Number of Storage Structures*
Northern Fleet			
Guba Litsa Forward	Suspect Warhead Storage	Probable Missile Storage Facility	1 probable earth-mounded bunker in excavation
Polyarnyy/Guba Kislaya Possible Regional	Possible Warhead Storage under construction	Missile Support Facility (missile port)	5 excavations, 150-300 ft apart
Sayda-Guba Forward		Missile Storage Facility	2 underground entrances, 400 ft apart
Severomorsk Regional		Missile Support Facility (missile port)	1 underground entrance 1 possible underground entrance, 50-100 ft apart, probably only 1 chamber
Baltic Fleet			
Kaliningrad Possible Regional	None identified	---	---
Black Sea Fleet			
Sevastopol Regional	Probable Warhead Storage	Missile Support Facility (missile port)	1 underground entrance
Pacific Fleet			
Dunay Regional**		Missile Storage Facility	2 excavations, probably for earth-mounded bunkers, 400 ft apart
Petropavlovsk Regional		Missile Storage Facility	2 earth-mounded bunkers 1 chamber being excavated, minimum separation of 1,800 ft
Zaliv Strelok/Bukhta Pavlovskogo Forward		Missile Storage Facility	2 earth-mounded bunkers in excavations, 350 ft apart

*Distances between warhead storage structures are measured edge-to-edge.
**There is a small munitions storage area at Bukhta Abrek Possible Naval Missile Support Facility; this facility is connected by road to Dunay Regional Depot.

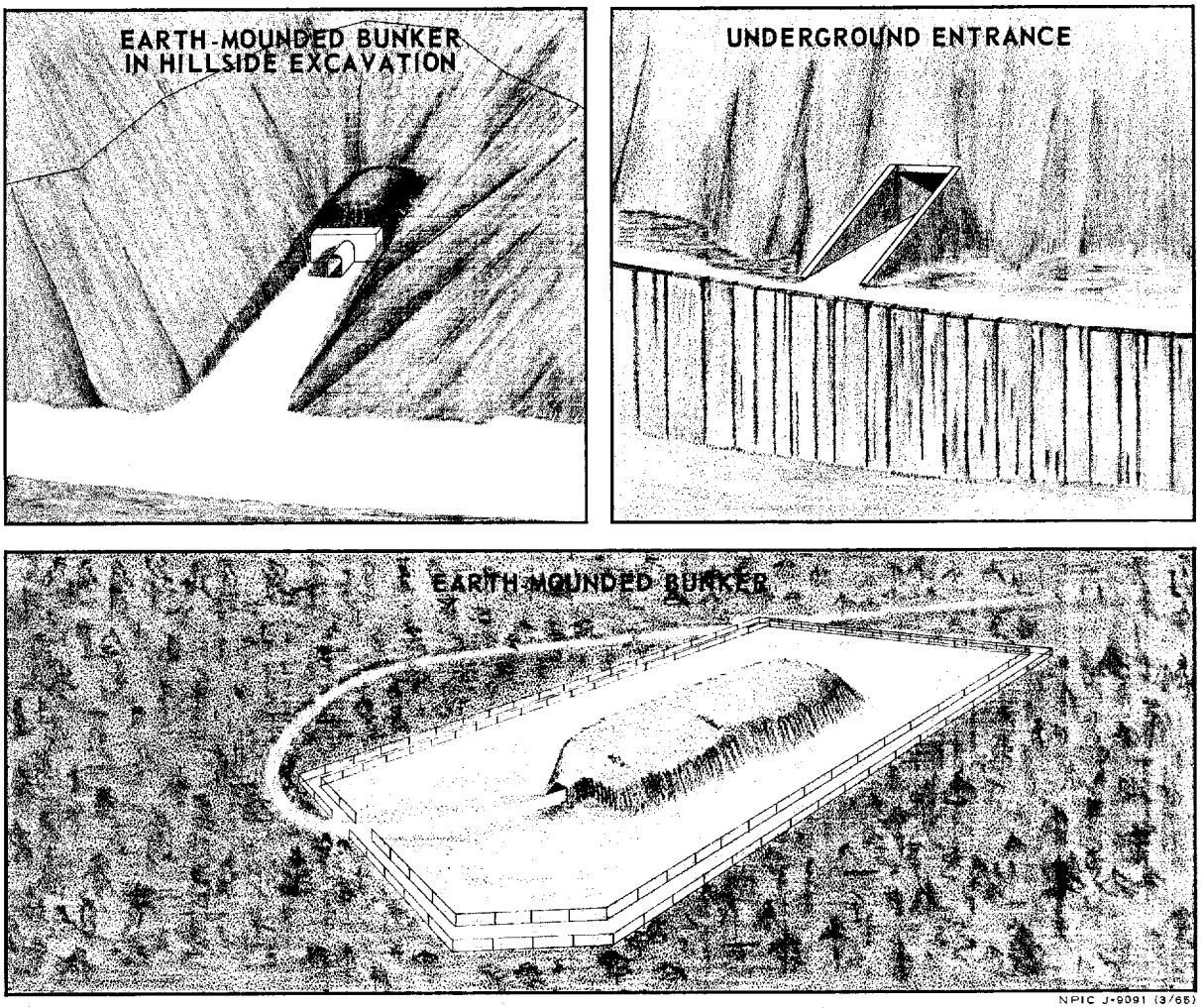

FIGURE 7. PERSPECTIVE VIEWS OF 3 REPRESENTATIVE TYPES OF NAVAL MISSILE WARHEAD STORAGE STRUCTURES.

excavations are discernible at Dunay and Polyarnyy Guba Kislaya. The Petropavlovsk facility contains 2 earth-mounded bunkers, and a chamber being excavated in a hillside there will also probably be earth mounded.

All the warhead facilities except those at Guba Litsa and Sevastopol have or apparently will have 2 or more storage structures. At least 2 of these structures were built concurrently at each site except at Sayda-Guba. However, the possible second underground entrance at Severomorsk is 50-100 feet from the first and may correspond to the side entrances to the bunkers at Petropavlovsk. The 2 underground entrances at Sayda-Guba are at least 400 feet apart and probably serve separate chambers.

At sites covered by photography which permits an analysis of details, the storage structures vary slightly in size and configuration. At Petropavlovsk, 1 of the bunkers has been tentatively identified as a storage structure for ballistic missile warheads and the other as a storage bunker for cruise missile warheads.

NAVAL MISSILE SUPPORT FACILITIES

Naval missile support facilities or specially built missile ports are elements of the regional depots. Apparently the regional depots at Petropavlovsk, Sevastopol, and Severomorsk each have a missile port. Dunay may have 2 ports, but a missile port has not been identified at Kaliningrad. The forward depots have direct road connections with the berthing areas at the submarine bases.

The missile ports are relatively isolated, secured, and built on narrow lowland strips backed by bluffs or cliffs. The facilities are simple, generally consisting of a pier or wharf, 1 or more support buildings, and at least 1 mobile crane. All except the port of Polyarnyy/Guba Kislaya have direct road connections with a naval missile storage facility.

Three of the ports include warhead storage facilities, as follows: at Severomorsk on the shore of Guba Okolnaya, excavations for a possible warhead storage facility under construction at Polyarnyy/Guba Kislaya, and a probable warhead storage facility at Sevastopol on the north shore of Bukhta Severnaya. Each of these warhead storage areas is screened from the dockside by a wall.

Photographic sightings indicate that missile submarines use 4 of the missile ports--the Dunay port on the shore of Bukhta Razboynik, the Petropavlovsk port near Staraya Tarya, Polyarnyy/Guba Kislaya, and Severomorsk/Guba Okolnaya (Appendix A). The missile submarines apparently use these ports only when loading or unloading missiles. Photographic observations also indicate that the Dunay port on the shore of Bukhta Abrek and the Sevastopol port on the north shore of Bukhta Severnaya are primarily used by missile destroyers, although the latter port is possibly used by missile submarines from the Sevastopol Naval Base in addition to the destroyers. The possible missile port on Bukhta Abrek apparently corresponds to the nearby missile port on Bukhta Razboynik, which is used by submarines.

It is possible that the missile destroyers operating out of Baltiysk and Severomorsk Naval Bases may be loaded at their regular berths rather than at missile ports. The destroyer berths at Severomorsk Naval Base are readily accessible by road from the Severomorsk Regional Naval Missile Depot, and no missile port facilities have been identified for the Kaliningrad Possible Regional Naval Missile Depot, which is 21 nautical miles (nm) from Baltiysk Naval Base.

TYPES OF MISSILES AT DEPOTS

In an attempt to distinguish between ballistic missile and cruise missile storage at the naval missile depots, the following factors were considered:

The summaries of the individual depots which follow include estimates of missile storage capability based on these observations and factors.

REGIONAL NAVAL MISSILE DEPOTS

Dunay (Pacific Fleet - Vladivostok Area): SSB, SSG, and DDG in fleet area, SSG at Naval Missile Support Facility at Dunay/Bukhta Razboynik, DDG at Bukhta Abrek Possible Naval Missile Support Facility; access to partially landlocked sea; under construction with 2 excavations cut into hillside, probably for earth-mounded bunkers; Naval Missile Storage Facility typical. Conclusion: cruise (guided) mis-

siles, possibly ballistic missiles.

Petropavlovsk (Pacific Fleet - east coast of Kamchatka Peninsula): SSB and SSG at nearby base, icebreaker traces between base and Probable Naval Missile Support Facility; free access to open sea; Facility with 2 varying earth-mounded bunkers and a chamber being excavated in hillside, 1 bunker possibly for ballistic missile warheads and 1 possibly for cruise missile warheads; Naval Missile Storage Facility typical. Conclusion: probably both ballistic and cruise missiles.

Sevastopol (Black Sea Fleet): no SSB observed in Black Sea, SSG at Sevastopol Naval Base, DDG at naval base and Naval Missile Support Facility; access to landlocked sea; Probable Warhead Storage Facility with 1 underground entrance; Naval Missile Storage Facility typical. Conclusion: probably cruise missiles.

Severomorsk (Northern Fleet): SSB, SSG, and DDG in fleet area, repeated sightings of SSB at Naval Missile Support Facility, DDG at Severomorsk Naval Base; 2 forward naval missile depots and 1 possible regional naval missile depot nearby; free access to open sea; Facility with 1 underground entrance and 1 possible underground entrance into cliff, 50-100 feet apart, probably only 1 chamber; Naval Missile Storage Facility not typical. Conclusion: ballistic missiles, possibly cruise missiles.

POSSIBLE REGIONAL NAVAL MISSILE DEPOTS

Kaliningrad (Baltic Fleet): possible DDG at Baltiysk 21 nm west-southwest; access to landlocked sea; no identifiable missile port; no identifiable warhead storage area; Possible Naval Missile Storage Facility typical. Conclusion: possibly cruise missiles.

Polyarnyy/Guba Kislaya (Northern Fleet): SSB, SSG, and DDG in fleet area, single sighting of SSG and a missile at Naval Missile Support Facility; 1 regional and 2 forward naval missile depots nearby; free access to open sea; Possible Warhead Storage Facility under construction with 5 excavations cut into hillside; no identifiable missile storage facility.* Conclusion: probably cruise missiles.

FORWARD NAVAL MISSILE DEPOTS

Guba Litsa (Northern Fleet): connected to Guba Litsa Submarine Base; SSB and SSG at base; free access to open sea; Suspect Warhead Storage Facility with 1 probable earth-mounded bunker in hillside excavation; 2 types of possible missile storage at Probable Naval Missile Storage Facility. Conclusion: probably ballistic missiles, possibly cruise missiles.

Sayda-Guba (Northern Fleet): connected to Sayda-Guba Submarine Base; SSB and SSG at base, SSB at subordinate base (Guba Olenya Submarine Base); free access to open sea; Facility with 2 underground entrances into cliff, at least 400 feet apart, probably 2 chambers, 1 entrance added since 1962; Naval Missile Storage Facility doubled since 1962. Conclusion: possibly both ballistic and cruise missiles.

Zaliv Strelok/Bukhta Pavlovskogo (Pacific Fleet - Vladivostok Area): connected to Zaliv Strelok Submarine Base, Bukhta Pavlovskogo; SSG at base; access to partially landlocked sea; Facility with 2 earth-mounded bunkers of different sizes in hillside excavations; limited Naval Missile Storage Facility. Conclusion: cruise missiles, possibly ballistic missiles.

*The word "possible" in the site designation qualifies the category of regional depot; this designation was based on the presence of the missile port. An alternate possibility is that the installation is a second missile port for Severomorsk Regional Depot, comparable to the possible relationship between the port on Bukhta Abrek and Dunay Regional Depot, or the Polyarnyy/Guba Kislaya installation may be a forward depot related to Polyarnyy Naval Base because the road approaches to the submarine berths at the base are not suitable for long trailers.

REFERENCES

DOCUMENTS

1. NPIC. R-5149/64, *Dunay Naval Missile Facilities, USSR*, Dec 64 (TOP SECRET

NPIC. R-5114/64, *Kaliningrad Possible Naval Missile Storage Facility, USSR*, Dec 64 (TOP SECRET

NPIC. R-5100/64, *Guba Litsa Probable Naval Missile Storage Facility, USSR*, Dec 64 (TOP SECRET

NPIC. *Petropavlovsk Naval Missile Facilities, USSR*, Feb 65 (TOP SECRET

NPIC. R-5034/64, *Polyarnyy Naval Missile Support Facility, Guba Kislaya, USSR*, Nov 64 (TOP SECRET

NPIC. R-5086/64, *Sayda-Guba Naval Missile Storage Facility, USSR*, Dec 64 (TOP SECRET

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NPIC. R-5081/64, *Severomorsk Naval Missile Facilities, USSR*, Dec 64 (TOP SECRET

NPIC. R-279/63, *Bukhta Pavlovskogo Naval Base, USSR*, Nov 63 (TOP SECRET

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2. NPIC. *Bukhta Abrek Possible Naval Missile Support Facility, USSR*, Jan 65 (TOP SECRET

REQUIREMENT

NSA. P0432/R93-64

NPIC PROJECT

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Appendix A. Photographic Sightings of Missile Ships at Soviet Ports
(Does not include shipyards and repair facilities)

Port	Type of Port	Missile Ships Sighted	NPIC Document Reference*
Northern Fleet, Headquarters at Severomorsk			
Guba Litsa	Submarine base	SSB SSG	R-5100/64
Polyarnyy/Guba Kislaya	Naval missile support facility	SSG	R-5034/64
Polyarnyy	Naval base	SSG	R-5034/64
Sayda-Guba	Submarine base	SSB SSG	R-5086/64
Guba Olenya	Submarine base (subordinate to Sayda-Guba Sub Base)	SSB	R-5086/64
Severomorsk/Guba Okolnaya	Naval missile support facility	SSB	R-5081/64
Severomorsk	Naval base	DDG	R-5081/64
Baltic Fleet, Headquarters at Kaliningrad			
Kaliningrad	No identifiable missile port	---	R-5114/64
Baltiysk	Naval base	DDG (possible)	R-5114/64
Black Sea Fleet, Headquarters at Sevastopol			
Sevastopol	Naval missile support facility	DDG	[redacted]
Sevastopol	Naval base	SSG DDG	
Pacific Fleet, Headquarters at Vladivostok			
Bukhta Abrek	Possible naval missile support facility; Naval base	DDG	
Dunay/Bukhta Razboynik	Naval missile support facility	SSG	R-5149/64
Petropavlovsk/ Staraya Tarya	Probable naval missile support facility	(icebreaker traces to Petropavlovsk/ Bukhta Tarya)	[redacted]
Petropavlovsk/ Bukhta Tarya	Naval base	SSB SSG	
Zaliv Strelok/Bukhta Pavlovskogo	Submarine base	SSG	R-279/63, R-374/63

*Photographic references for sightings are incorporated in detailed reports on associated or nearby Soviet naval missile facilities. 1/ 2/